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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,838	07/10/2003	Isao Sendo	030784	8880
38834	7590 03/01/2006		EXAMINER	
	AN, HATTORI, DAN	TAPOLCAI, WILLIAM E		
1250 CONNECTICUT AVENUE, NW SUITE 700			ART UNIT	PAPER NUMBER
	ON, DC 20036	3744		

DATE MAILED: 03/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
		SENDO ET AL.				
Office Action Summary	10/615,838 Examiner	Art Unit				
	William E. Tapolcai	3744				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulating the sound and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 Fe						
<i>,</i> —						
•	) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1 and 3-5 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-5</u> is/are rejected. 7)□ Claim(s) is/are objected to.	,	•				
8) Claim(s) are subject to restriction and/o	r election requirement.	,				
Application Papers						
• •	·	·				
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail D  5) Notice of Informal F	ate Patent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:						

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eybergen. Eybergen discloses the claimed invention, including the holder 30 which is fixed in position once the valve is completely assembled and is in operation.

  However, Eybergen does not disclose the limitation of the flow rate not exceeding 1.4 times the flow rate corresponding to a tonnage set as a capacity which can pass a maximum flow rate. The setting of the maximum flow rate is considered to be an obvious matter of design choice, because one of ordinary skill in the expansion valve art would have expected Applicant's invention to perform equally well with Eybergen, because Eybergen discloses all of the other claimed structural limitations.
- 3. Applicant's arguments filed February 14, 2006 have been fully considered but they are not persuasive. The holder 30 of Eybergen clearly is fixed in position once the valve is fully assembled and is operational. The holder is adjustable to adjust a preload of the spring, but the valve has to be disassembled to do this. Once the valve is completely assembled, the holder does not move.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William E. Tapolcai whose telephone number is (571) 272-4814. The examiner can normally be reached on Mon. - Thurs., 6:30 to 5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William B. Tapolcai Primary Examiner Art Unit 3744

wet February 21, 2006